studiolite

OPERATING INSTRUCTIONS

STUDIOLITE INSTRUCTIONS BWL-0377/2 (07/07)
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Table of Contents

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Description	Page
Introduction & Safety Notes	3
General Features	4
Reflector Care	4
Lamp Installation	4
Studiolite DMX Control Panel	5
Studiolite (analogue) Control Panel	6
Studiolite (analogue) Operation	6
Studiolite DMX Functions	7 - 17
Studiolite Accessories	18 - 20
Lamp Sets	20
Studiolite Accessories Part Codes	21
How to Assemble...(accessories)	22 - 30
Studiolite DMX Specifications	31
Studiolite (analogue) Specifications	31

Introduction

Dear Valued Customer,

Thank you for choosing the Bowens StudioLite DMX professional video lighting system.
Accurate, ergonomic, powerful and simple to use, the StudioLite DMX was designed by working closely with videographers to develop a system that meets the standards demanded in professional studios today.
For details of all related products, please contact your local distributor, a list of which can be found at **www.bowens.co.uk**.

In order to obtain the full benefit from your purchase, please take a few moments to familiarise yourself with this user manual.

Thank you.
Bowens International Ltd.

Safety Notes

DO NOT:

- Use in an environment where moisture or flammable vapour is likely to come in contact with the unit.
- Restrict air vents while in use.
- Use a unit with damaged housing or mouldings. If the unit is dropped or damaged in any way, always have it checked out before using.
- Operate the unit without a safe grounded (earthed) AC supply.

DO:

- Switch power off and disconnect from the supply before changing lamps.
- Disconnect the supply before changing the fuse. Never replace with a fuse of a different rating. A spare fuse is fitted in the fuse holder.
- Exercise care when handling equipment that has been in use.
- Avoid placing cables where they can be tripped over. Protect from heavy, sharp or hot objects, which may cause damage and replace damaged cables immediately.
- All servicing must be carried out by an authorised Service Centre.
- Remove the power cord by gripping the plug. NEVER pull the cord.
- Ensure that any extension cord used has a suitable current rating to prevent overheating and never use coiled extension cords.

General Features

Continuous light source with high quality integral reflector. The Studiolite range is available with a variety of lamps including daylight 5400K bulbs, alternative lamps are available providing a choice of light output and colour temperature.

Features Include:

- 55W compact fluorescent lamps provide high quality output. Wide variety of lamps available - see Page 20,
- Fully variable manual or remote dimming.
- Adjustable mounting bracket to fit 16mm spigot for stand or overhead mounting.
- Wide range of accessories available.

Reflector Care

The reflector is manufactured from high quality colour free anodized aluminium.

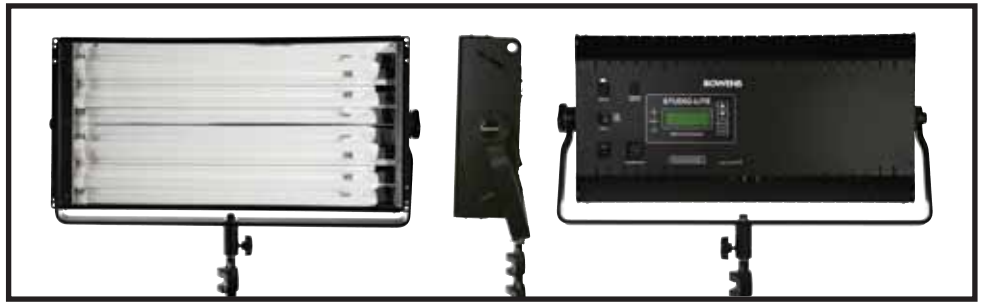
The surface may be cleaned with a soft damp cloth. Care must be taken to avoid bending or scratching the reflector. Stubborn stains should be removed with a ph-neutral cleaning agent.

Lamp Installation

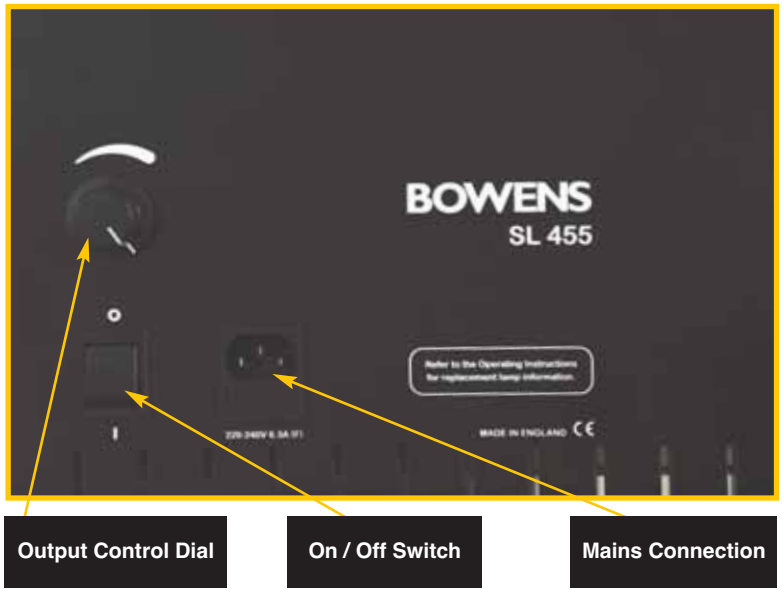
- Switch OFF and disconnect from the mains supply before installing or replacing lamps.
- Handle lamps with a care during installation or removal.
- To remove a lamp, pull directly away from the connector across the unit, take care not to smash the tube into the opposite end of the reflector. Withdraw the lamp from the lamp support.
- To install, position the lamp over the lamp support and align the connector. Push in until the lamp is retained by the clip.

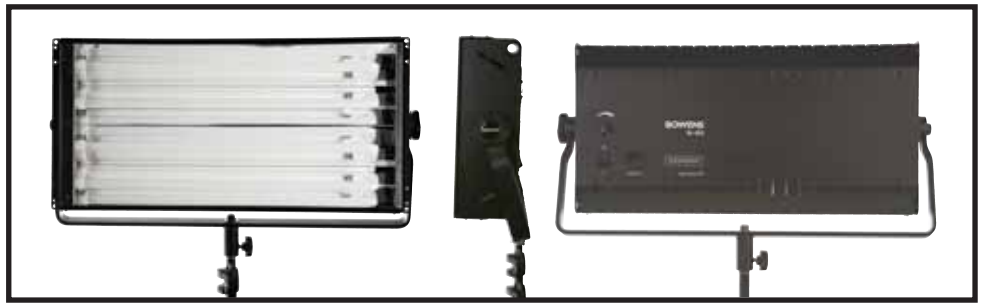
Note: It is recommended that only lamps purchased under a Bowens stock code number are used as replacements. The manufacturer will not accept liability for the use of any other lamps.

Studiolite DMX Control Panel



Studiolite (analogue) Control Panel





Studiolite (analogue) Operation

- The Studiolite 455 & 855 (analogue) operates from an AC mains supply of 220-240V 50/60Hz or 110-130V 50/60Hz (117V version). Always use a power cable supplied by your Bowens dealer to connect to the mains.
- Set the mains switch on the rear panel to “1”.
- Light output will improve after the lamps have been switched on for a few minutes.
- Lamps can be switched on with the dimmer set at any level.

Studiolite DMX Features

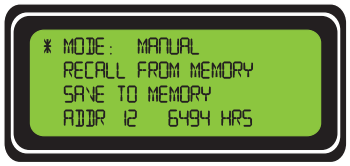
Manual Mode Functions.

Step-By-Step Guide: How to change...

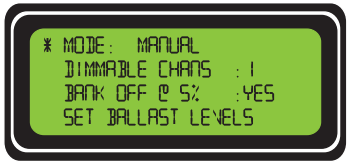
Number of Dimmable Channels.

Number of dimmable channels (to have either 1 or 2 separate channels available). If the user has selected to have only 1 channel then all four tubes are linked to the same channel, whereas if the user would like 2 different channels then the top 2 tubes and the bottom 2 tubes are split. The top 2 tubes are linked to ballast/channel 1 and the bottom 2 tubes are linked with ballast/channel 2.

Step 1). From the Base Menu press SELECT to display the asterisk (*).

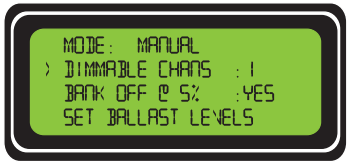


Step 2). With the asterisk (*) next to the ‘Mode: Manual’ option pressing the SELECT button again then enters the chosen mode (manual) and displays the available functions.

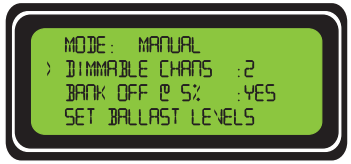


Step 3). By using the arrow (up/down) buttons the user can then scroll through the available functions until the asterisk is next to the required function/option (Dimmable Chans).

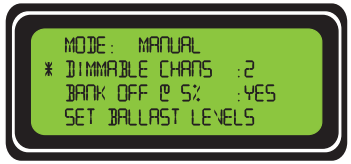
Step 4). With the asterisk next to the required function, pressing the SELECT button then selects that option and confirms the users choice by changing the asterisk (*) into an arrow (>).



Step 5). With the chosen function highlighted by the arrow (>) the user can change the available options by using the arrow (up/down) buttons.



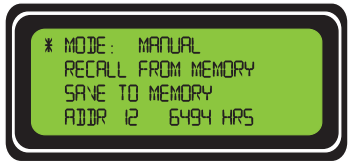
Step 6). Once the required option is displayed pressing the DONE button then selects that option. This is confirmed by changing the arrow (>) back into an asterisk (*). By repeatedly pressing the DONE button the user can then navigate back through the menu system to the top/base menu level.



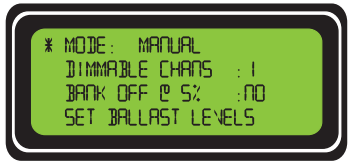
Bank Off @ 5%.

Switch banks off @ 5% is a useful feature when the user turns the ballast levels right down to min & the lamps are still giving off some light. When the Banks Off @ 5% feature is enabled this allows the user to know that when he/she turns the unit to min the lamps will switch off completely, otherwise a faint glow will be emitted by the tubes.

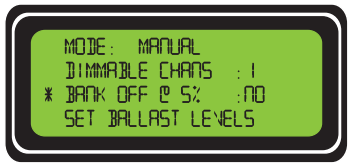
Step 1). From the Base Menu press SELECT to display the asterisk.



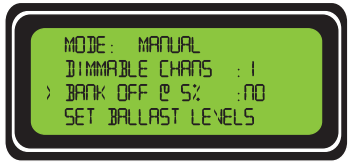
Step 2). With the asterisk (*) next to the 'Mode: Manual' option pressing the SELECT button again then enters the chosen mode (manual) and displays the available functions.



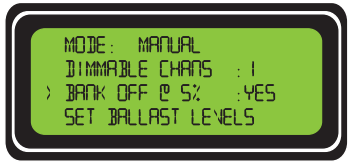
Step 3). By using the arrow (up/down) buttons on the rear of the DMX unit the user can move through the available functions until asterisk (*) is next to the required function (Bank Off @ 5%).



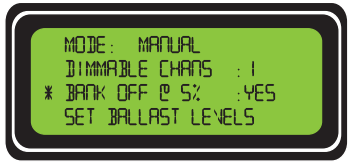
Step 4). When the asterisk is next to the required function, pressing the SELECT button then selects that function and confirms the users choice by changing the asterisk (*) into an arrow (>).



Step 5). With the chosen function highlighted (Bank Off @ 5%) by the arrow (>) the user can now change the available options for that function by using the arrow (up/down) buttons.



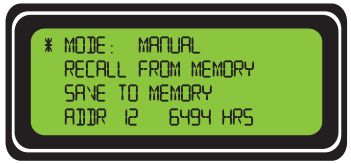
Step 6). Once the required option is displayed pressing the DONE button then selects that option. This is confirmed by changing the arrow (>) back into an asterisk (*). By repeatedly pressing the DONE button the user can then navigate back through the menu system to the top/base menu level.



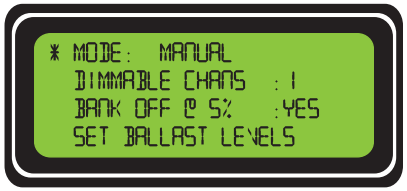
Set Ballast Levels.

Set Ballast Level (output). The ballast levels can be set from between 0 (min) and 255 (max).

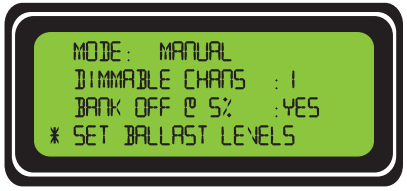
Step 1). From the Base Menu press SELECT to display the asterisk (*).



Step 2). With the asterisk (*) next to the 'Mode: Manual' option pressing the SELECT button again then enters the chosen mode (manual) and displays the available functions.



Step 3). By using the arrow (up/down) buttons on the rear of the DMX unit the user can move through the available functions until asterisk (*) is next to the required function (Set Ballast Levels).



Step 4). When the asterisk is next to the required function (Set Ballast Level), pressing the SELECT button again then enters the SET BALLAST LEVEL menu. When in the SET BALLAST LEVEL menu the user is given two options, BALLAST NO (which refers to which ballast (top or bottom / 1 or 2) is to be adjusted) and BALLAST LEVEL (which is to control the light output from the lamps).

Step 5) When in the SET BALLAST LEVEL menu the arrow (up/down) buttons can be used to select which option (Ballast Level) is be adjusted.

Step 6). Once the asterisk is positioned next the the required option, pressing the SELECT button changes the asterisk (*) into an arrow (>) which then allows the user to adjust the ballast levels using the arrow (up/down) buttons.

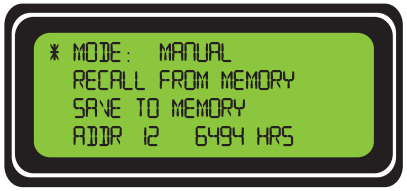
Step 7). When the required option (Set Ballast Level) is selected the user can then use the arrow (up/down) buttons to adjust that particular function to the required setting.

Step 8). Once the user has adjusted the chosen function to the desired setting by pressing the DONE button the user can then select that setting; this is confirmed by the arrow (>) changing back into an asterisk (*) allowing the user then to continue changing any further settings. By repeatedly pressing the DONE button the user can navigate back to the top/base menu level.

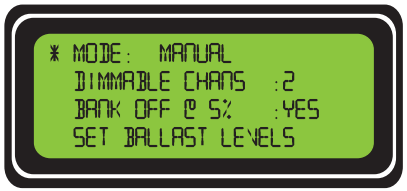
Ballast Number To Be Adjusted (1 or 2).

This option is to choose which ballast (top or bottom / 1 or 2) is to be adjusted (note: if number of dimmable channels is set to 1 then this option is non-applicable).

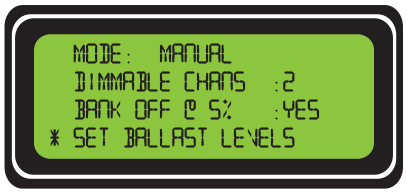
Step 1). From the Base Menu press SELECT to display the asterisk (*).



Step 2). With the asterisk (*) next to the 'Mode: Manual' option pressing the SELECT button again then enters the chosen mode (manual) and displays the available functions.



Step 3). Once in the manual mode, the user can scroll through the available options to the desired function (Set Ballast Levels) by using the arrow (up/down) buttons.



Step 4). Once the user has navigated to the desired function (Set Ballast Levels) by pressing the SELECT button again the user can enter the next menu level to the available options for the Set Ballast Levels function.

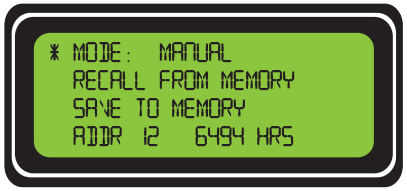
Step 5). To change/select which ballast number is to be adjusted press SELECT when the asterisk (*) is next to the BALLAST NO option to change the asterisk to an arrow (>) which will then allow the user to change that function by using the arrow (up/down) buttons.

Step 6). Once the desired setting is displayed pressing the DONE button then selects that setting and confirms the users selection by changing the arrow (>) back to an asterisk (*) then allowing the user to continue changing any further settings.

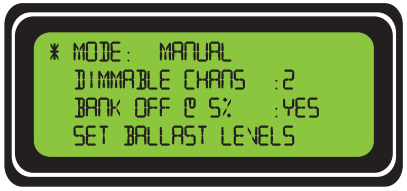
Mode Setting (Manual or Remote).

This option is so the user can choose whether the unit they will be working with is to be used manually or by remote operation (via a DMX control system).

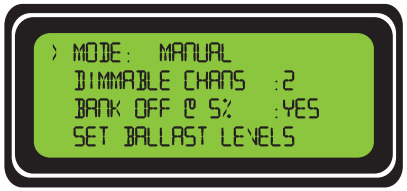
Step 1). From the Base Menu press SELECT to display the asterisk (*).



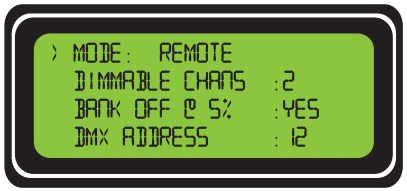
Step 2). Once the asterisk is displayed on the base menu pressing the SELECT button again then allows the user to enter the next menu level to choose which function is to be altered within that mode.



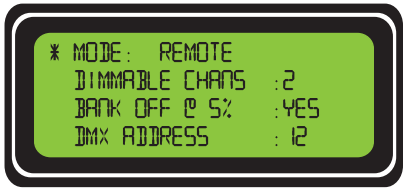
Step 3). When the asterisk is next to the mode option pressing the SELECT button then highlights that function by changing the asterisk (*) into an arrow (>) allowing the user to change that option to the required setting.



Step 4). Using the arrow (up/down) buttons on the rear of the unit the user can now change the current chosen function to the required setting. Once the remote mode is displayed the available options for that setting will then be shown.



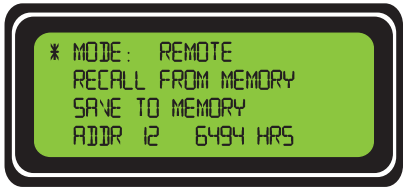
Step 5). Once the desired setting is displayed pressing the DONE button then selects that setting and confirms the users selection by changing the arrow (>) back to an asterisk (*) then allowing the user to continue changing any further settings.



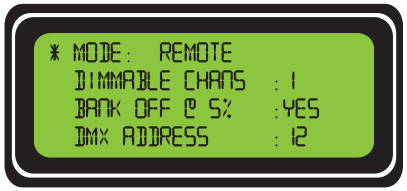
DMX Address (remote mode).

This feature is used when 'x' (more than one) number of DMX compatible units are used/being controlled via a DMX control desk. The Studiolite DMX range allows up to 512 units to controlled at any one time; allocating individual addresses to each Studiolite DMX allows the user to then control each light separately.

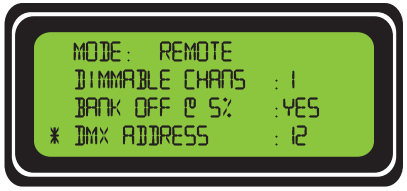
Step 1). From the Base Menu press SELECT to display the asterisk (*).



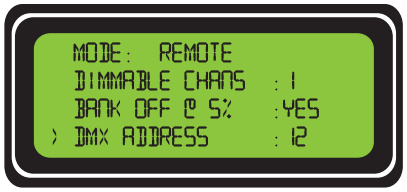
Step 2). With the asterisk (*) next to the 'Mode: Remote' option pressing the SELECT button again then enters the chosen mode (remote) and displays the available functions.



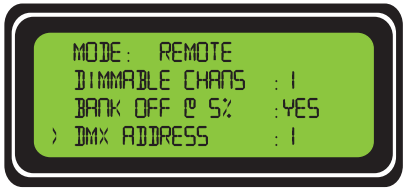
Step 3). Once in the manual mode, the user can scroll through the available options to the desired function (DMX Address) by using the arrow (up/down) buttons.



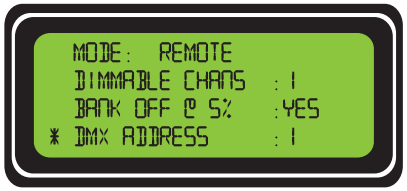
Step 4). When the asterisk is next to the desired option pressing the SELECT button then highlights that function by changing the asterisk (*) into an arrow (>) allowing the user to then change that option to the required setting.



Step 5). With the chosen function highlighted by the arrow (>) the user can now adjust the available options to the required setting by using the arrow (up/down) button.



Step 6). Once the desired setting is displayed for the chosen function pressing the DONE button the selects that setting. This is confirmed by the arrow (>) changing back into an asterisk (*) allowing the user to then continue changing any further settings.

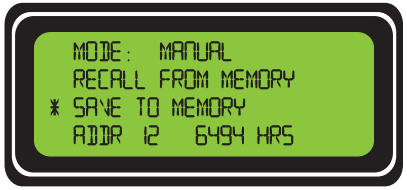


Save to Memory.

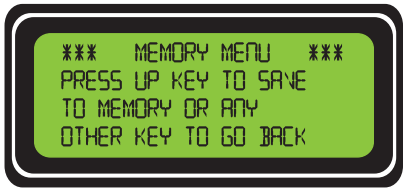
After the user has setup his/her Studiolite DMX unit to the required settings, the user can then save those settings to the units memory; allowing the user to recall the Studiolite's settings after the unit has been turned off.

Step 1). Once all the required setting are in place, from the Base Menu press SELECT to display the asterisk (*).

Step 2). With the asterisk showing, use the arrow (up/down) buttons to position the asterisk next to the SAVE TO MEMORY option.



Step 3). With the asterisk in place next to the SAVE TO MEMORY function, pressing the SELECT button then enters that function and takes the user to the next menu level. Within the next menu level for the SAVE TO MEMORY function the user is asked to press the arrow UP key to save all the current settings.

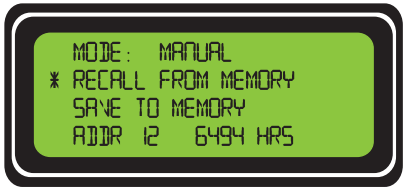


Step 4). When the arrow UP key is pressed the user is taken to the next menu level where the DMX unit will confirm that the current feature setting have been saved to the units memory. Pressing any key then takes the user back to the Base Menu Level.

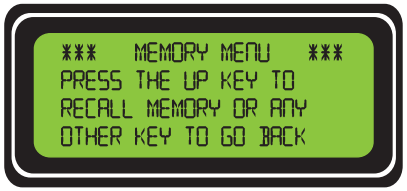
Recall from Memory.

After the user has saved all the required function settings to the memory they can then recall that saved setup at a later time, as and when required.

Step 1). At anytime during normal use the user can recall the setup that has been previously saved to the units memory. From the base menu level pressing the SELECT button displays the asterisk (*). With the asterisk showing use the arrow (up/down) keys to position the asterisk next to the RECALL FROM MEMORY option.



Step 2). With the asterisk in position next to the RECALL FROM MEMORY function pressing the SELECT button enters that option. Once in the next menu level the user can press the arrow UP button to recall all the previous settings to the unit.



Step 3). When the user has pressed the arrow UP button the menu screen will change to the next screen to confirm that the settings have been restored. Pressing any button on the control panel then takes the user back to the base menu level.

Softbox Kit.

Available for the DMX455, this softbox fits neatly onto the front of your Studiolite and incorporates a removable diffuser for when you need either a soft even light, or an intense direct light.

BW4457

Top & Bottom Barn Doors.

One of the most essential accessories for the Studiolite, the Top and Bottom Barn Doors fit both the DMX455 & the DMX855. These Barn Doors are used to reflect or control the spread of light.

BW4450

Octagonal Fabric Diffuser Kit.

For an even, soft, continuous lighting solution. This simple to assemble fabric diffuser is designed to fit the DMX855 with Barn Doors, Side Barn Doors and Soft Corners attached.

BW4442

Intensifier Ends.

To be used with the Top and Bottom Barn doors. Available for both the DMX455 and the DMX855. Together with the StudioLite, the Intensifier Ends are a very high output reflector that can also be used with a Honeycomb Grid for more controlled lighting.

DMX455: **BW4454**
DMX855: **BW4458**

Gel Rails.

Studiolite Gel Rail accessory for the DMX455 and the DMX855, simply attaches to the top and bottom of the StudioLite to allow you to put your Honeycomb Grid or gel filters directly in front of the light source. Also supplied with magnetic strips to attach gel filters etc.

BW4440

Honeycomb Grid (for Gel Rails).

Simply screws onto the front of your DMX455 or DMX855 with Gel/Filter Rails attached for more direct precision controlled lighting.

BW4443: DMX455 - 30degree Grid
BW4444: DMX855 - 30degree Grid

Honeycomb Grid (for Intensifier Ends).

This honeycomb simply screws onto the front of your Studiolite with Intensifier Ends and Top and Bottom Barn Doors attached.

BW4455: DMX455 - 30degree Grid
BW4459: DMX855 - 30degree Grid

Soft Corner Set.

For the DMX455 and the DMX855. Attaches to the back of the Barn Doors and Side Barn Doors to prevent light spill and give even more precise lighting control. (Set of 4).

BW4453

Side Barn Doors.

For both the Studiolite DMX455 and the DMX855. The Side Barn Doors must be used with the Top & Bottom Barn doors, simply attach these highly efficient reflectors to maximize the available light to create a remarkably even light spread. Adjustable for more precision controlled light.

DMX455: **BW4451**
DMX855: **BW4452**

Fabric Diffuser.

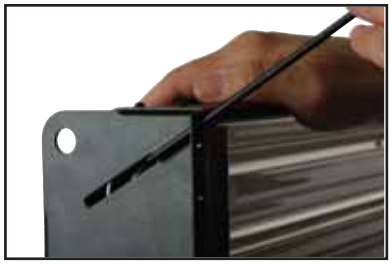
This Fabric Diffuser has been designed for use with the DMX455, simply place over the top of the assembled Intensifier Ends and Top & Bottom Barn Doors for a softer, more pleasing light.
BW4441

Lamp Sets

Part Code	Lamps
BW4460	Lumilux Lamp Set 5400K (4 tubes)
BW4461	Lumilux Delux Lamp Set 3000K (4 tubes)
BW4462	Lumilux Lamp Set 4000K (4 tubes)
BW4463	Lumilux Lamp Set 3000K (4 tubes)
BW4464	Lumilux Lamp Set 5600K (4tubes)
BW4465	Lumilux Lamp Set 3200K (4 tubes)

Part Code	Studiolite Accessories
BW4440	Gel Rails
BW4441	Fabric Diffuser (for use with BW4454 & BW4450)
BW4442	DMX / SL855 Octagonal Fabric Diffuser
BW4443	30˚ Honeycomb Grid for DMX / SL455 with Gel Rails
BW4444	30˚ Honeycomb Grid for DMX / SL855 with Gel Rails
BW4450	Top Bottom Barn Doors
BW4451	DMX / SL455 Side Barn Doors
BW4452	DMX / SL855 Side Barn Doors
BW4453	Soft Corner Set
BW4454	DMX / SL455 Intensifier Ends
BW4455	30˚ Honeycomb Grid (for use with BW4454 & BW4450)
BW4456	30˚ Octagonal Grid for DMX / SL855
BW4457	Softbox kit for DMX / SL455
BW4458	DMX / SL855 Intensifier Ends
BW4459	30˚ Honeycomb Grid (for use with BW4458 & BW4450)

Softbox (for DMX / SL455) BW-4457



STEP 1

First, insert one of the metal rods into the top left hand corner of the unit through the appropriate hole and slide into position.

STEP 2

Repeat for both top rods, then place softbox on top of both rods until your unit looks like picture shown.

STEP 3

Next, insert third rod into the unit as shown.

STEP 4

Insert final rod into unit while holding back the softbox for easiest assembly.

STEP 5

Once the final rod is in place, make sure to pull the softbox fully over the rods.

STEP 6

To complete your softbox simply attach the fabric diffuser using the 'hook and loop' strips around the edges of the softbox.

Gel Rails BW-4457

STEP 1

The Gel Rails (top and bottom) are attached to the flange at the side of the unit. Push the studs of the mounting brackets through the holes (top and bottom rails).

STEP 2

Secure both top and bottom rails with the thumb nuts provided.

STEP 3

Attached Gel Rails should look like picture opposite.

Top & Bottom Barn Doors BW-4450

STEP 1

The Barn Doors (top and bottom) are attached in the same way as the Gel Rails. Push the studs of the mounting brackets through the holes (top and bottom doors) in the flange at the side of the unit.

STEP 2

Secure both top and bottom doors with the thumb nuts provided.

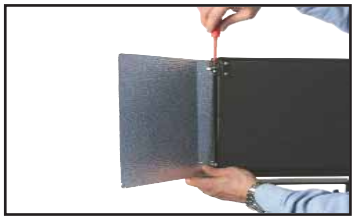
STEP 3

Completed Barn Door attachments should appear like picture opposite.

Side Barn Doors DMX / SL455 BW-4451
DMX / SL855 BW-4452

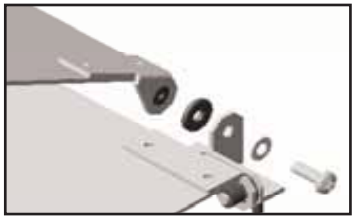
STEP 1

To attach Side Barn Doors, you must already have the Barn Doors fixed to the unit. For easiest assembly close Barn Doors first.



STEP 2

With Barn Doors closed, position Side Barn Doors and attach with screws provided as shown.



STEP 3

Make sure to attach the Side Barn Doors using the correct screws and washers in the right order (correct order shown opposite).

STEP 4

Attach Side Barn Doors using all the screws, repeat until both doors are securely positioned onto unit.

STEP 5

Your finished StudioLite with Barn Doors and Side Barn Doors.

Soft Corners BW-4453

STEP 1

Make sure 'hook and loop' strips are attached to Barn Doors, and Side Barn Doors on all corners as pictured opposite.

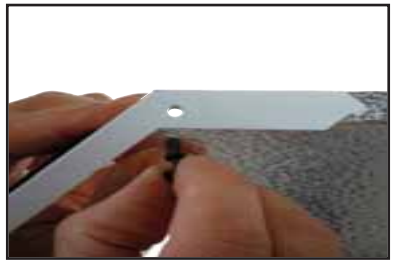
STEP 2

With 'hook and loop' strips in place on Barn Doors fix Soft Corners as shown.

STEP 3

When all Soft Corners are in place your StudioLite should appear as shown.

Octagonal Fabric Diffuser Kit (for DMX / SL855) BW-4442



STEP 1

To attach Fabric Diffuser make sure Soft Corners, Side Barn Doors and Barn Doors are in place. Position white corner piece as shown.

STEP 2

To secure corner pieces to unit use black plastic rivets provided. **Do not** take rivets apart, push through hole as one piece (Shown opposite).

STEP 3

Once secured, the corner on your unit should appear as shown.

STEP 4

When all Corners are in place your StudioLite should appear as shown.

STEP 5

Once all corners are in place, to attach the Fabric Diffuser simply match up the 'hook and loop' strips on the white metal corners to the strips on the Fabric Diffuser.

STEP 6

Once all corners are secured and the Fabric Diffuser is in place your kit should appear as shown.

Intensifier Ends	DMX / SL455	BW-4454
	DMX / SL855	BW-4458

STEP 1

To attach Intensifier Ends make sure Barn Doors are already fixed. Position Intensifier Ends in between Barn Doors and secure with plastic rivets as shown.

STEP 2

Once both top and bottom of both Intensifier Ends are secure, position as shown opposite with Barn Doors on the inside.

STEP 3

With Barn Doors and Intensifier Ends in position (top and bottom; both sides) secure with plastic rivets (provided) as shown opposite.

STEP 4

Once Barn Doors and Intensifier Ends are attached and secured, your StudioLite should look like picture opposite.

30˚ Honeycomb Grid (for DMX / SL455 with Intensifier Ends & Side Barn Doors)	BW-4455
30˚ Honeycomb Grid (for DMX / SL855 with Intensifier Ends & Side Barn Doors)	BW-4459

STEP 1

With Intensifier Ends and Barn Doors secure and in position, place Honeycomb Grid in front of unit and put screws through the appropriate holes on Barn Doors.

STEP 2

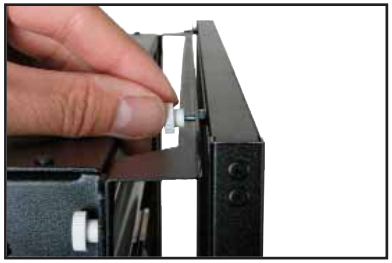
Once Honeycomb is in position secure with thumb nuts provided.

Honeycomb Grid (for use with Gel Rails)

DMX / SL455: 30˚ Grid BW-4443
DMX / SL855: 30˚ Grid BW-4444

STEP 1

First make sure that Gel Rails are secured to unit.



STEP 2

With Gel Rails attached, place Honeycomb grid in front on unit and put screws through appropriate holes in both top and bottom Gel Rails.

STEP 3

When Honeycomb is in position secure with thumb nuts provided.

Illuminance (Lux)

	Vertical	Horizontal	@1m	@2m	@3m	@4m
DMX / SL455	62°	75°	5200	1400	650	350
DMX / SL855	62°	75°	10000	2800	1300	700

Studiolite DMX Specifications

	DMX455	DMX855
Bowens Stock Code (220 - 240V 50/60Hz)	BW4405	BW4415
Bowens Stock Code (110 - 130V 50/60Hz)	BW4406	BW4416
Power Consumption	240W	480W
Fuse	6.3A (F) 20mm HRC	
Lamps	4 x 55W	8 x 55W
Dimensions Including Bracket (H x W x D).	400mm x 650mm x 120mm	670mm x 650mm x 120mm
Weight	5.4kg	9.0kg

Studiolite (analogue) Specifications

	SL455	SL855
Bowens Stock Code (220 - 240V 50/60Hz)	BW4440	BW4410
Bowens Stock Code (110 - 130V 50/60Hz)	BW4401	BW4411
Power Consumption	240W	480W
Fuse	6.3A (F) 20mm HRC	
Lamps	4 x 55W	8 x 55W
Dimensions Including Bracket (H x W x D).	400mm x 650mm x 120mm	670mm x 650mm x 120mm
Weight	5.0kg	8.6kg